

provided on a body of the portable communication terminal or may alternatively be provided separately from a body of the portable communication terminal and includes a radio communication function section which communicates by radio with a radio communication function section of the body of the portable communication terminal.

Preferably, a body of the portable communication terminal has a visual telephone function and the image pickup section has a display section capable of displaying an image received from the opposite party by the body of the portable communication terminal when the visual telephone function is operative.

In the portable communication terminal with an image transmission function for transmitting an image such as a still image or a moving image, the reception electric field intensity detection means detects a reception electric field intensity of the portable communication terminal. Then, the reception electric field intensity image transmission means transmits a reception electric field intensity image representative of the detected reception electric field intensity to the opposite party of communication. In this instance, the reception electric field intensity image is transmitted solely or together with an image picked up by the image pickup section provided removably and externally on or provided separately from the body of the portable telephone set. Further, if a communication quality alarm is generated in the portable telephone set because of deterioration of the circuit quality, then the communication

quality alarm image is transmitted together with or in place of the image picked up by the image pickup section.

Accordingly, with the portable communication terminal, since an image representative of an electric field intensity state of the portable communication terminal is transmitted as an image by itself or together with an image picked up by the portable communication terminal and besides an alarm image is transmitted if a communication quality alarm is generated in the portable communication terminal, the electric field intensity and the circuit quality state are transmitted automatically to the opposite party of communication. Consequently, a countermeasure for preventing expected disconnection of the circuit during communication can be taken, and the portable communication terminal can be used with improved convenience.

The above and other objects, features and advantages of the present invention will become apparent from the following description and the appended claims, taken in conjunction with the accompanying drawings in which like parts or elements are denoted by like reference symbols.

BRIEF DESCRIPTION OF THE DRAWINGS

FIG. 1 is a block diagram showing a configuration of a portable communication terminal to which the present invention is applied;

FIG. 2 is a block diagram showing a detailed configuration

of the portable communication terminal of FIG. 1;

FIG. 3 is a schematic view illustrating an example of a transmission image by the portable communication terminal of FIG. 1;

5 FIG. 4 is a schematic view showing an example of a screen display of the opposite party upon communication of the portable communication terminal of FIG. 1;

FIG. 5 is a flow chart illustrating operation of the portable communication terminal of FIG. 1;

10 FIG. 6 is a schematic view showing another example of a transmission image by the portable communication terminal of FIG. 1;

15 FIG. 7 is a schematic view showing an another example of a screen display of the opposite party upon communication of the portable communication terminal of FIG. 1; and

FIGS. 8 to 10 are block diagrams showing configurations of different portable communication terminals to which the present invention is applied.

20 DESCRIPTION OF THE PREFERRED EMBODIMENTS

Referring first to FIG. 1, there is shown a configuration of a portable telephone terminal to which the present invention is applied. The portable telephone terminal shown includes a control section 101 which operates in accordance with a program, a memory section 102 in which programs, image data and so forth for the control section 101 are stored, a radio communication